

Original Meldorfer®

Lightweight, handmade, mineral facing bricks for decorative design of facades and interior surfaces as individual design variations



Product Description

Field of Application

Decorative surface coating for individual design in the Capatect façade systems and as an interior application.

Material Properties

- Hand-formed from high-quality and approx. 90% mineral raw materials
- Low cladding weight of only 5 kg/m² and therefore low CO₂ footprint according to EPD
- Slender material structure of only approx. 8 mm incl. laying mortar "Capatect Meldorfer® Ansatzmörtel 080"
- Weatherproof and UV-resistant, durable
- Hard-wearing and resistant to mechanical stress, scratch-resistant and resistant to cleaning
- Water vapour diffusible

Types that can be delivered

Formate- URBAN CLASSIC / NEW DESIGN				
Format	Dimensions	Product-No.	Packaging	Consumption
Thin format (DF/Format II)	240 x 52	071	3,0 m ² /box =192 pieces	64 pieces/m ²
Normal format (NF/Format III)	240 x 71	085	3,0 m ² /box = 144 pieces	48 pieces/m ²
Multi format (MF)	300 x 52, 300 x 71, 300 x 135	076	3,0 m ² /box = 45 / 45 / 19 pieces	individual, depending on the division of the format
Special format (SF)	300 x 135	074	3,0 m ² /box = 66 pieces	22 pieces/m ²
Exclusive long format (LF)	400 x 40	078	3,0 m ² /box = 141 pieces	47 pieces/m ²
Large format (GF)	600 x 300	072	3,0 m ² /box = 16 pieces	6 pieces/m ²
Extra long format (XLF)	740 x 52	070	3,0 m ² /box = 63 pieces	21 pieces/m ²
Material thickness: 4-6 mm				



Formate - NATURE ELEMENT				
Format	Dimensions	Product-No.	Packaging	Consumption
Wattenmeer	115 x 71mm, 240 x 71 mm, 490 x 71 mm, 740 x 71 mm	202	3,0 m ² /box = 153 pieces	individual, depending on the division of the format
Sanddüne	240 x 71 mm, 40 x 105 mm, 490 x 105 mm	201	3,0 m ² /box = 116 pieces	individual, depending on the division of the format
Mäander	240 x 337 x 47mm, 125 x 280 mm	200	3,0 m ² /box = 72 pieces	individual, depending on the division of the format
Material thickness: 4-6 mm				

Formate - MY MELDORFER				
Format	Dimensions	Product-No.	Packaging	Consumption
My Meldorfer	depending on the chosen geometric shape	099		individual, depending on the division of the format
Material thickness: 4-6 mm				

Angle brick with header and a whole stretcher (edges 1/1)				
Format	Dimensions	Product-No.	Packaging	Consumption
Thin format (DF/Format II)	240 x 115 x 52	075	3,0 m/box = 48 pieces	16 pieces/m
Normal format (NF/Format III)	240 x 115 x 71	087	3,0 m/box = 36 pieces	12 pieces/m
Multi format (MF)	240 x 115 x 52 / 71 / 135	077	3,0 m/box = 12 / 12 / 9 pieces	individual, depending on the division of the format
Special format (SF)	240 x 115 x 135	097	3,0 m/box = 21 pieces	7 pieces/m
Exclusive long format (LF)	240 x 105 x 40	079	3,0 m/box = 36 pieces	20 pieces/m
Material thickness: 4-6 mm				

Angle brick with header and a whole 3/4 stretcher (edges 3/4)				
Format	Dimensions	Produkt-No.	Packaging	Consumption
Thin format (DF/Format II)	175 x 115 x 52	073	3,0 m/box = 48 pieces	16 pieces/m
Normal format (NF/Format III)	175 x 115 x 71	086	3,0 m/box = 36 pieces	12 pieces/m
Material thickness: 4-6 mm				

Special formats, colours and surfaces on request.
Slight dimensional tolerances to achieve the natural look must be taken into account.

Colours

Product line	Colour	Shade	Formats
URBAN CLASSIC	Altweiß	-	DF, NF
	Juist*	beige, beige-grey, beige-yellow	DF, NF
	Sylt*	yellow, orange, yellow-orange	DF, NF
	Antik*	light, dark	DF, NF
	Mecklenburg*	light red, medium red, dark red and brand	DF, NF
	Hamburg*	light, dark	DF, NF
	Dithmarschen	-	DF, NF
	Rotbunt*	light, medium, dark	DF, NF
	Lüneburg*	light, medium, dark	DF, NF
	Friesland	-	DF, NF
	Oldenburg*	light red, medium red, dark red	DF, NF
	Brandenburg*	brand, plain	DF, NF
	Westerwald*	grey-medium, grey-reddish, grey-greenish	NF
	Stockholm	-	LF
	Oslo*	light, dark	LF
	Sandstein*	grey**, yellow**, red** (one pack each)	MF
Kopenhagen	-	LF	
NEW DESIGN	Kolding*	grey, yellow	DF, NF, LF, XLF
	Jever	-	DF, NF, LF, XLF
	Stralsund	-	DF, NF, XLF
	Helsinki*	beige	DF, NF, LF, XLF
	Holstein*	red, brown, sand	DF, NF, LF, XLF
	Kiel*	red, brown, brand	DF, NF, LF, XLF
	Malmö*	light brown, beige	DF, NF, LF, XLF
	Steingrau*	beige, grey, dark grey	SF
	Bork	-	SF, GF, XLF
	Betongrau	-	SF, GF
MY MELDORFER	Projekt Puzzle*	light grey, dark grey	various formats
	Projekt Seamless Patterns*	light beige, sand, dark grey	
	Projekt Schlüssel*	light green-grey, green-grey, green	
	Projekt Würfel*	light grey, grey, medium grey	
	Projekt Vierecke*	light red, red	
	Projekt Dreiecke*	light blue, blue, dark blue	
	Projekt Tetres*	beige, yellow, grey	
	Projekt Quadratwelle*	-	
* These shades are packaged in different shades to be mixed in application to create a natural colour play.			
** To achieve a natural colour play, these shades must be ordered individually and also processed mixed.			

Storage

Dry, protected from moisture and sunlight.

Technical Data

- Heat conductivity: $\lambda_R = 0.70 \text{ W/(mK)}$ according to DIN 4108-4
- Fire behaviour: Class A2-s1, d0 according to DIN EN 13501-1
- Water permeability (w-value): $\leq 0.1 \text{ kg/(m}^2\text{h}^{1/2}\text{)}$ according to DIN EN 1062-3
Category W₃ (low) according to DIN EN 15824
- Water vapour permeability (sd-value): Category V₂ (medium) according to DIN EN 15824
 $s_d \geq 0.14 \text{ m} - < 1.4 \text{ m}$ according to DIN EN ISO 7783

Supplementary Product

- Capatect Meldorfer® Ansatzmörtel 080 (laying mortar)
- Capatect Meldorfer® Fugenmörtel 081 (joint filler)
- Capatect Meldorfer® Zahnkelle 098 (trowel)
- Capatect Meldorfer® Winkelschere 098 (angle scissors)

Note

The general building authority approval / general type approval of the underlying ETIC systems of the underlying ETIC systems or VHF and the technical information of the products.

Application

Suitable Substrates

External thermal insulation composite systems:

- Finished, hardened base coat according to selected approval.

Prime cementitious substrates (also mineral base coats) with Putzgrund 610 to largely exclude efflorescence.

Mineral substrates made of:

- Mortar group PII, PIII according to DIN V 18550, etc.
- concrete
- load-bearing mineral old render and coatings
- gypsum plasterboard or base coats of mortar group PIV + V indoors

Substrate Preparation

The substrate must be even, clean, dry, solid, load-bearing and free of separating or adhesion-reducing residues or substances. Impurities and substances with a separating effect (e.g. formwork oil) as well as protruding mortar burrs must be removed. Damaged, flaking paintwork and decorative renders must be removed as far as possible. Hollow areas of rendering must be knocked off and rendered flush with the surface.

Highly absorbent, sanding or flouing surfaces must be thoroughly cleaned and primed until they are solid.

The compatibility of any existing coatings with the adhesive must be expertly checked.

Application Conditions

During The application and in the drying phase, the ambient and substrate temperatures must not be below +5 °C and above +30 °C.

Do not apply in direct sunlight, strong wind, fog or high humidity. In this context, we refer to the leaflet "Verputzen, Wärmedämmen, Spachteln, Beschichten bei hohen und tiefen Temperaturen" (Rendering, Thermal Insulation, Filling, Coating at High and Low Temperatures) from the Bundesverband Ausbau und Fassade (Federal Association for Finishing and Facades).

Drying/Drying Time

approx. 2 - 3 days depending on temperature and relative humidity.

Tool Cleaning

Immediately after use with water.

Laying and Jointing

Preparatory work

Original Meldorfer® is a hand-formed, individually manufactured product for which colour differences and dimensional tolerances must be taken into account. Some colour shades of Original Meldorfer® are made up of graduated colour nuances. To achieve a play of colours on the surface, the different shades must be pre-mixed well with each other. To avoid the concentration of individual colour shades and any dimensional tolerances, the Original Meldorfer® tiles must therefore be mixed when the layers are removed from the cardboard and laid.

Due to the use of natural aggregates, slight differences in colour shade are possible. Therefore, ensure that the production numbers are the same.

Divide the areas to be laid evenly with continuous height markings (cord markings) to determine work steps:

Format	Height	Number layers	Number joints	Height Joints	Height of the work section
Normal Format (NF)	71 mm	4	4	12 mm	332 mm
Thin Format (DF)	52 mm	5	5	12 mm	320 mm
Multiformat (MF)	3 Formats	3	3	12 mm	294 mm
Special Format (SF)	135 mm	2	2	12 mm	294 mm
Long Format (LF)	40 mm	6	6	12 mm	312 mm
Large Format (GF)	300 mm	1	1	12 mm	312 mm
Extra Long Format (XLF)	52 mm	5	5	12 mm	320 mm

When dividing the façade for an even installation of Original Meldorfer®, observe the fixed lines (e.g. windows, doors, roll layers, etc.) and use them as a starting point for dividing the façade. Slight shifts in dimensions can be taken into account when dividing the height.

Applying

Original Meldorfer® is best applied from top to bottom, starting with the corner facing bricks.

Capatect Meldorfer® Ansatzmörtel 080 must always be applied in strips within the height markings and combed through in the direction of laying with the Meldorfer® notched trowel 098 (toothing 4 x 6 mm). When applying the large format (GF), use a toothed trowel 6 x 6 mm.

The individual Original Meldorfer® should be pressed firmly into the mortar with a pushing motion so that no hollow layers are created. Only as much mortar should be applied as can be laid immediately before the skin forms. Care must be taken to ensure an exact division between stretcher and binder arrangement.

With the "Sandstein" (sandstone) colour, a harmonious surface design can be achieved with a regular or random combination of the different formats and corresponding cuts. Preferably, the three sandstone colours grey, yellow and red should be mixed with each other.

Joints

Afterwards, the mortar should be spread evenly in the joint area with a wet 10 mm flat brush and worked onto the flanks of the Original Meldorfer®. The transitions of the adhesive mortar to the Original Meldorfer® must be tightly sealed to prevent water from migrating behind.

If desired, the Original Meldorfer® can also be given an additional full jointing with Capatect Meldorfer® Fugenmörtel 081. To improve the adhesion of the materials to each other by means of mechanical bonding, it is recommended to leave the serration of the (Capatect Meldorfer® Ansatzmörtel 080) in the joints.

Allow any excess material to dry slightly and brush the surface with a hand brush or similar to remove any loose mortar.

Advice

In the case of dense, cool substrates or if drying is delayed due to weather conditions, auxiliary substances may reach the surface of the coating due to moisture exposure (rain, dew, mist). The effect depends on the intensity of the colour shade. These auxiliary substances are water-soluble and are removed independently with sufficient water, e.g. after further weathering. The quality of the dried coating is not adversely affected by this.

Assessments and Approvals:

German:

Z-33.41-130 Z-33.42-132 Z-33.43-133
 Z-33.47-859 Z-33.42-1739

European:

ETA-07/0184 ETA-10/0436 ETA-12/0383
 ETA-11/0300 ETA-13/0890 ETA-13/0891
 ETA-13/0289

Please Note (Status as at Date of Publication)

Disposal

Small quantities of waste can be disposed of as normal household waste. Dispose of larger quantities as mixed construction and demolition waste following EWC170 904

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Customer Service Centre

Tel.: +49 6154 71-71710

Fax: +49 6154 71-71711

e-mail: kundenservicecenter@caparol.de

International Distribution: Please see www.caparol.com



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All suggestions and application instructions herein are based on our latest technical experience. Due to the wide variety of individual project conditions, we cannot be held responsible for their content. These instructions do not release the purchaser/ applicator from his responsibility to determine the suitability of the product in consideration of the project characteristics. These instructions are to be considered void when a new edition is released. Our general conditions of sale and delivery in their latest edition apply. This document is a translation of our German Technical Information No.071 · Original Meldorfer® · Issued: March 2024

CAPAROL Farben Lacke Bautenschutz GmbH · Roßdörfer Straße 50 · D-64372 Ober-Ramstadt · Internet www.caparol.com · E-Mail info@caparol.de